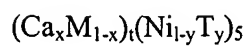


## ABSTRACT

New alloys of the AB<sub>5</sub> type are disclosed which are of the formula:



where M is one or several metals selected from the group consisting of misch metal (Mm) and other rare earth metals

T is one or several semi-metals such as Si, Ge and Ga;

$$0 < x \leq 1;$$

$$0 < y \leq 0.5 \text{ and}$$

$$0.8 \leq t \leq 1.2.$$

Also disclosed is a process for preparing these new alloys and their use for hydrogen storage.